	Application No.	Applicant(s)
	10/037,353	KAWAI, SUMIO
Notice of Allowability	Examiner	Art Unit
1	Nelson D. Hernandez	2612
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this or other appropriate communicat IGHTS. This application is subjection	e correspondence address application. If not included ion will be mailed in due course. THIS
1. This communication is responsive to <u>8/24/2005</u> .		
2. The allowed claim(s) is/are 1,7 and 8.		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) \square including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	_	
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summa Paper No./Mail [ıry (PTO-413), Date .
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 8/4/2005, 6/15/0≤	Paper No./Mail [98), 7. ☐ Examiner's Amer	ndment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's State	ment of Reasons for Allowance
of Biological Material	9.	

DETAILED ACTION

Specification

1. Examiner acknowledges changes made to the title. Changes on title are accepted.

Response to Amendment

2. Examiner acknowledges the amendments made on the claims received on August 24, 2005. Claims 1, 7 and 8 have been amended. Claims 2-6 and 9 have been cancelled.

Allowable Subject Matter

- 3. Claims 1, 7 and 8 are allowed.
- 4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, the main reason for indication of allowable subject matter is because the prior art fails to teach or reasonably suggest that the piezoelectric bodies include laminated piezoelectric bodies laminated on a surface of the optical device outside of an image formation light ray passing-through area of the optical device.

Akio, JP 07-151946 discloses a dust removal camera (See fig. 1) comprising: an image pickup optical system (Fig. 1: 3), which forms an optical image of an object; a photoelectric converting device (Fig. 1: 5) which converts the optical image to an electric signal; an optical device (Fig. 1: 2) disposed in the front of the image pickup optical system; and a vibration applying section (Fig. 1: 15) which generates a supersonic vibration on a surface of the optical device to remove dust adhered to the surface of the

Application/Control Number: 10/037,353

Art Unit: 2612

optical device (See translation, page 2, \P 0008; page 3, \P 0009-0013; page 4, \P 0016-0020; page 5, \P 0022).

Shaw, 4,441,796 teaches an optical device (Fig. 3: 44) for removing dust from the photosensitive element (Fig. 3: 42) of a camera or a projector, wherein said optical device for removing dust is disposed between the photosensitive element and the lens (Fig. 3: 62), and wherein a vibration transducer (Fig. 11: 234) for vibrating the optical device for removing dust generates a standing wave (See col. 10, lines 11-19) on a surface of the optical device to remove dust adhered to the surface of the optical device. (Col. 1, lines 6-12; col. 3, lines 38-59; col. 4, lines 29-61; col. 10, lines 11-19 and 44-53).

However, the teaching of Akio and Shaw either alone or in combination fails to teach or reasonably suggest that the piezoelectric bodies include laminated piezoelectric bodies laminated on a surface of the optical device outside of an image formation light ray passing-through area of the optical device.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson D. Hernandez whose telephone number is (571) 272-7311. The examiner can normally be reached on 8:00 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on (571) 272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/037,353 Page 4

Art Unit: 2612

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nelson D. Hernandez Examiner Art Unit 2612

NDHH September 2, 2005

PHANT RANTHER